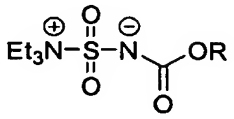
What is claimed is:

1. A Burgess-type reagent represented by the following structure:



wherein -C(O)OR is a carbamate protecting group, with a proviso that **R** is not methyl, ethyl, or polyethylene glycol.

2. A Burgess-type reagent according to claim 1 wherein **R** is a radical selected from the group consisting of alkyl, allyl, alkenyl, haloalkyl, alkyl ether, aryl, substituted alkyl, and substituted aryl.

3. A Burgess-type reagent according to claim 1 wherein **R** is a radical selected from the group consisting of (C3-C10) alkyl, (C3-C10) allyl, (C3-C10) alkenyl, (C1-C10) haloalkyl, (C2-C10) alkyl ether, (C5-C10) aryl, (C1-C10) substituted alkyl, and (C5-C10) substituted aryl.

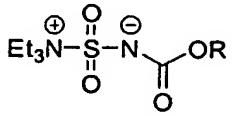
4. A Burgess-type reagent according to claim 1 wherein R is a radical selected from the group consisting of $-CH_2Ph$, $-CH_2$-*o*-NO_2Ph, $-CH_2CH{=}CH_2$, $-CH_2CCl_3$, and $-CH_2CH_2SiMe_3$.

5. A process comprising the following step:

reacting a 1,2 diol with an excess of a Burgess reagent or a Burgess-type reagent under reaction conditions for forming a cyclic sulfamidate.

6. A process according to claim 5 wherein the 1,2 diol is enantiopure and the cyclic sulfamidate is chiral.

7. A process according to claim 5 wherein the Burgess-type reagent is represented by the following structure:



wherein -C(O)OR is a carbamate protecting group.

8. A process according to claim 7 wherein **R** is a radical selected from the group consisting of alkyl, allyl, alkenyl, haloalkyl, alkyl ether, aryl, substituted alkyl, and substituted aryl.

9. A process according to claim 7 wherein **R** is a radical selected from the group consisting of (C2-C10) alkyl, (C3-C10) allyl, (C3-C10) alkenyl, (C1-C10) haloalkyl, (C2-C10) alkyl ether, (C5-C10) aryl, (C1-C10) substituted alkyl, and (C5-C10) substituted aryl.

10. A process according to claim 5 further comprising the following additional step:

deprotecting the cyclic sufamidate for producing a carbamate protected β-aminoalcohol.

11. A process according to claim 10 further comprising the additional following step:

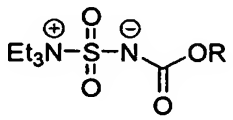
deprotecting the carbamate protected β-aminoalcohol for producing a β-aminoalcohol.

12. In an improved process for synthesizing a product or a product intermediate, the process being of a type employing a nucleophile selected from the group consisting of O-, S-, N-, C-, and F-based nucleophiles for converting a cyclic sulfamidate into the product or product intermediate, the improvement comprising the following preliminary step:

forming the cyclic sulfamidate by reacting a 1,2 diol with an excess of a Burgess reagent or a Burgess-type reagent.

13. A process according to claim 12 wherein the 1,2 diol is enantiopure and the cyclic sulfamidate is chiral.

14. A process according to claim 12 wherein the Burgess-type reagent is represented by the following structure:



wherein -C(O)O**R** is a carbamate protecting group.

15. A process according to claim 12 wherein **R** is a radical selected from the group consisting of alkyl, allyl, alkenyl, haloalkyl, alkyl ether, aryl, substituted alkyl, and substituted aryl.

16. A process according to claim 15 wherein **R** is a radical selected from the group consisting of (C2-C10) alkyl, (C3-C10) allyl, (C3-C10) alkenyl, (C1-C10) haloalkyl, (C2-C10) alkyl ether, (C5-C10) aryl, (C1-C10) substituted alkyl, and (C5-C10) substituted aryl.

17. A process according to claim 16 wherein R is a radical selected from the group consisting of $-CH_2Ph$, $-CH_2$-*o*-NO_2Ph, $-CH_2CH=CH_2$, $-CH_2CCl_3$, and $-CH_2CH_2SiMe_3$.

18. A compound represented by the following structure: